


DETECTION OF PUPIL EMOTION SYSTEM

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ABSTRACT

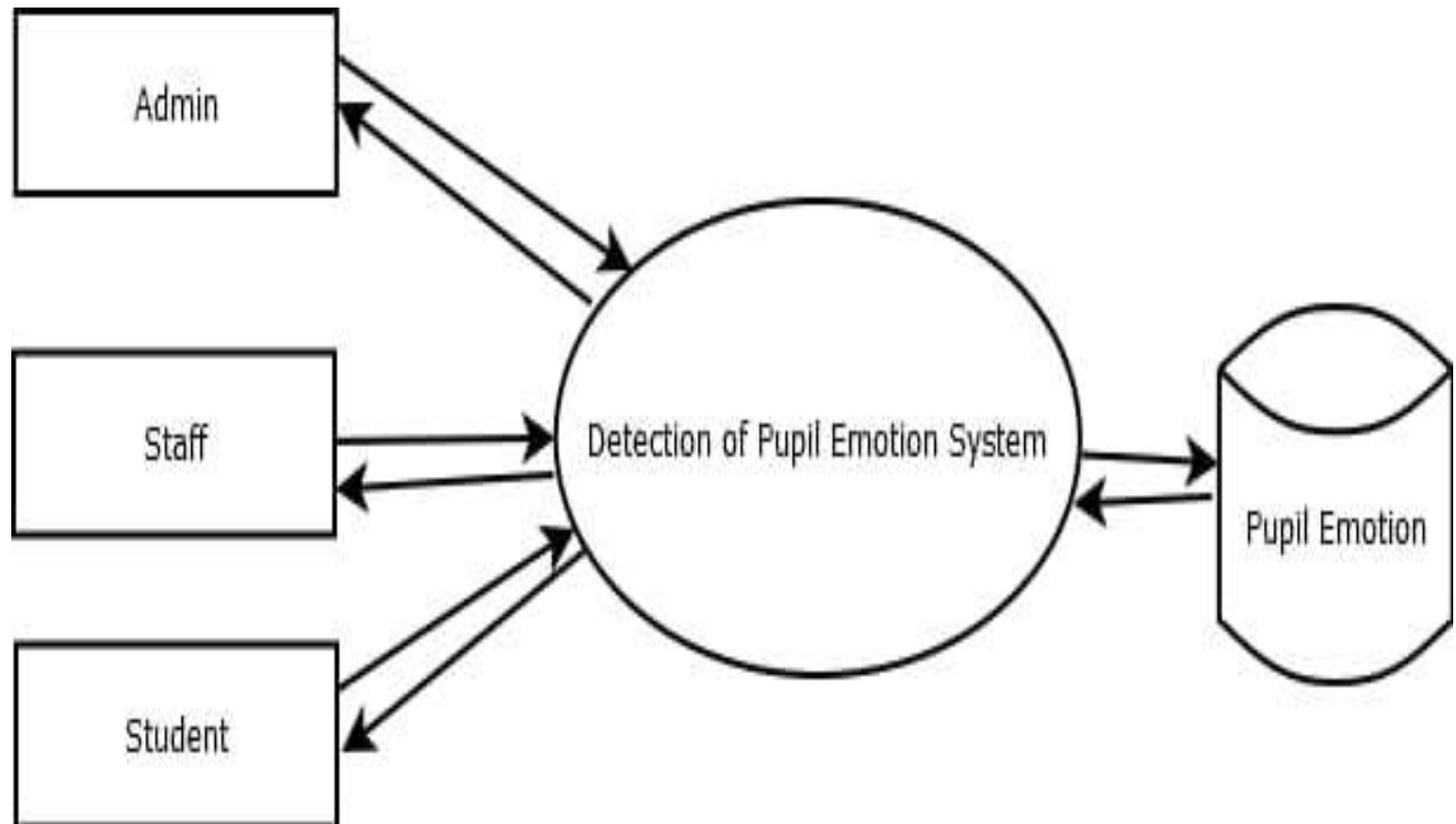
- ▶ In this project facial emotions are expressed through activation of specific sets of facial muscles. These sometimes subtle, yet complex, signals in an expression often contain an abundant amount of information about our state of mind. Expression and emotions also have an important role in analyzing the student's interest in the classroom lectures. Out of the various ways to detect emotion, the quick way is to understand the emotion symptoms through facial expression.
 - ▶ To Propose a new e-learning system which focuses on the emotional aspect of students.
 - ▶ To detect emotion and face recognition thus facilitating Intelligent Human-Computer Interaction.
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MODULES

- ▶ Admin
 - Login
 - View reviews
 - View Student's attendance
 - View the teacher's performance.
 - View attendance
 - ▶ Staff
 - Login
 - View reviews
 - View student's attendance
 - View teacher Performance
 - View attendance
 - ▶ Student
 - Students face recognition
 - Add review
 - View attendance
- 

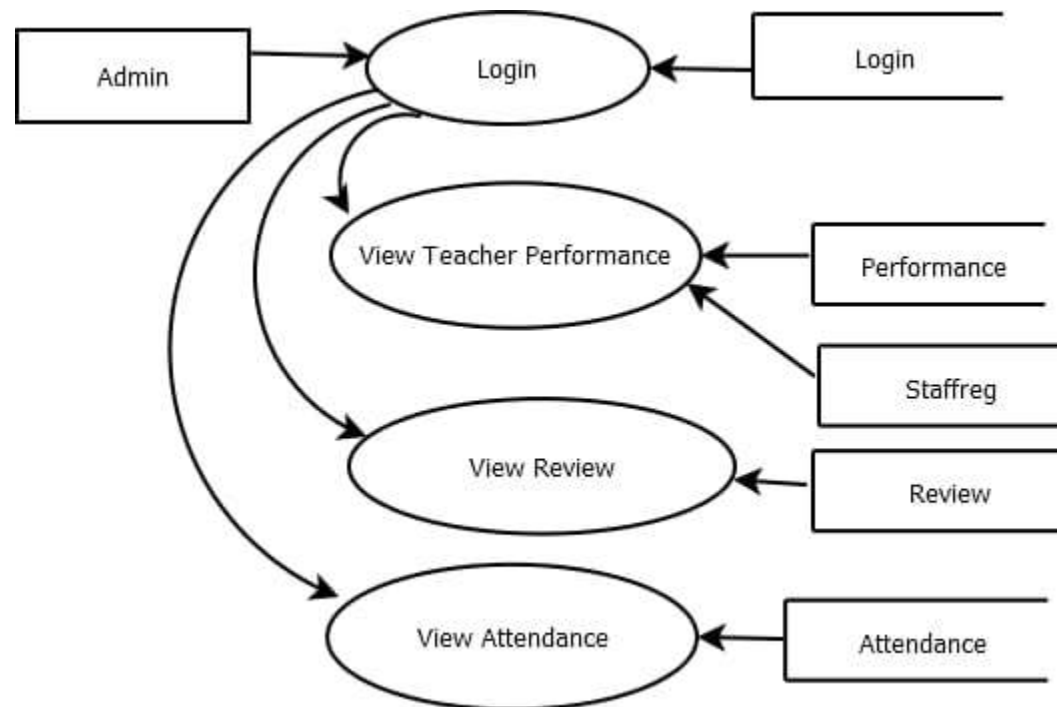
DATA FLOW DIAGRAM

Level-0

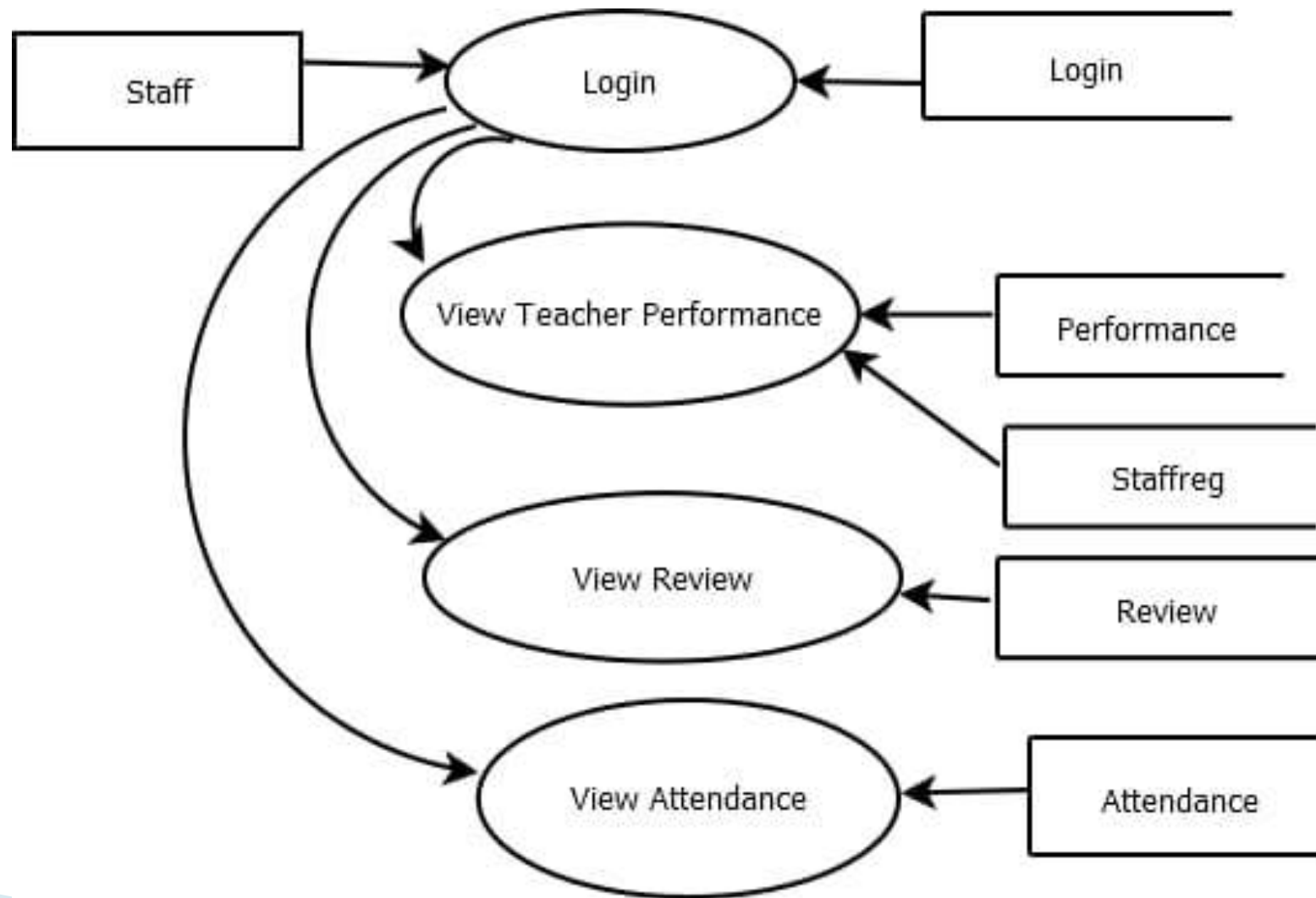


DATA FLOW DIAGRAM

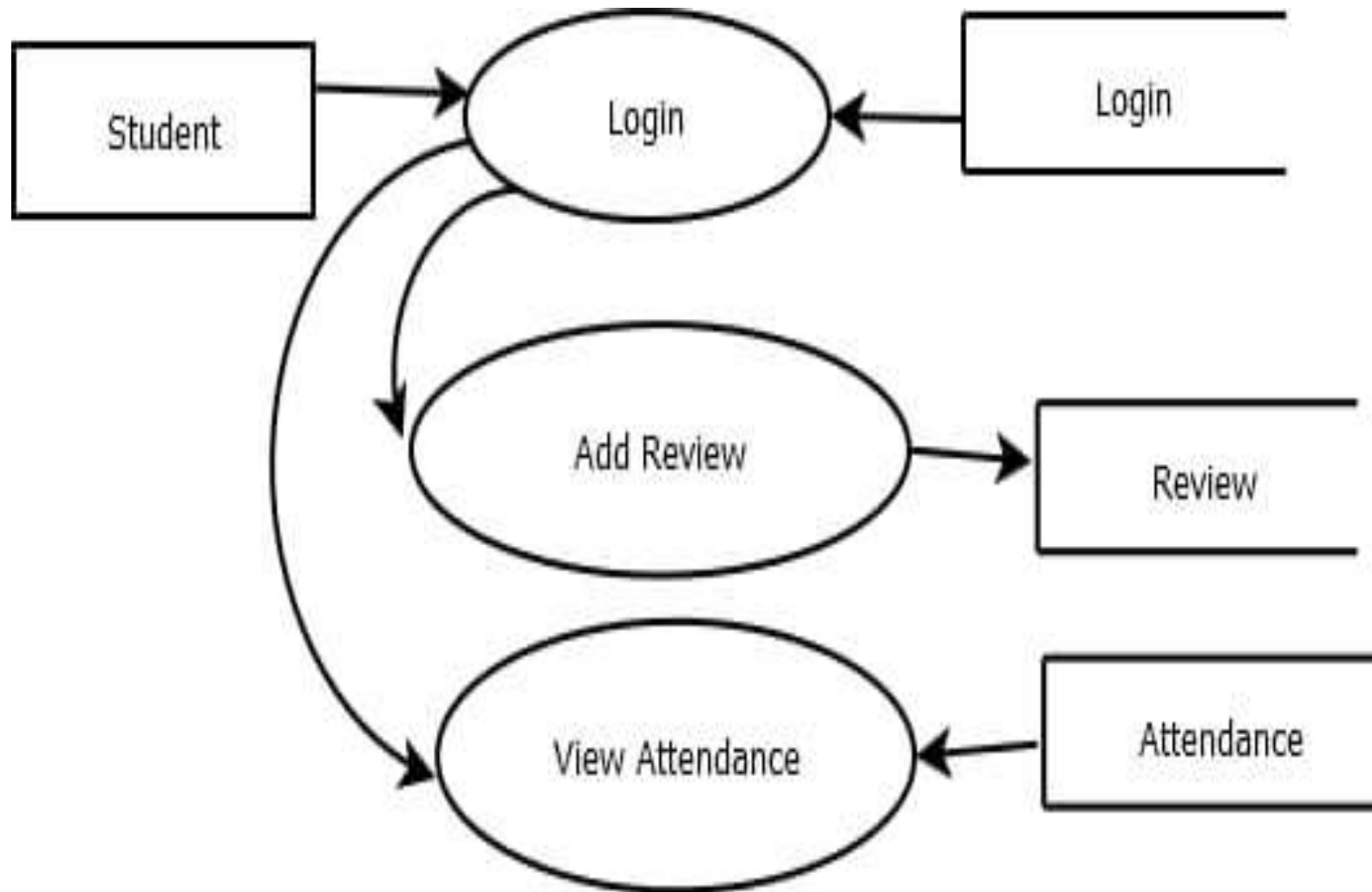
Level-1.1



Level-1.2



Level-1.3




Developing Environment

SOFTWARE REQUIREMENTS

1. Operating System : Windows 8 or higher
2. Front End Tool : HTML, CSS, python
3. Back End Tool : MY SQL
4. IDE : Pycharm community, Android studio/eclipse
5. Web Browser : All new browsers

HARDWARE REQUIREMENTS

Processor : Intel Pentium IV
Monitor : Min. 14
RAM : 256 MB
Hard Disk : 80 GB
Keyboard : Standard 104 Keys
Modem : 56 Kbps
Mouse : Serial mouse



PRODUCT BACKLOG

| User story ID | Priority <High/Medium /Low> | Size (Hours) | Sprint <#> | Status <Planned/In progress/Comp leted> | Release Date | Release Goal |
|---------------|-----------------------------------|-----------------|---------------|--|-----------------|------------------------|
| 1 | Medium | 5 | 1 | Completed | 12/01/2022 | Table design |
| 2 | High | 5 | | Completed | 12/01/2022 | Form design |
| 3 | High | 5 | 2 | Completed | 12/01/2022 | Basic coding |
| 4 | High | 5 | | Planned | | Facial recognition |
| 5 | High | 10 | 3 | Planned | | Emotion recognition |
| 6 | High | 10 | | Planned | | Sentiment analysis |
| 7 | Medium | 5 | 4 | Planned | | Testing data |
| 8 | High | 5 | | Planned | | Output generation |

USER STORY

| User Story ID | As a type of | I Want to <Perform Some task> | So that I can<Achieve Some Goal> |
|---------------|--------------|-------------------------------|---|
| 1 | Admin | Login | login successful with correct username and password |
| 2 | Admin | Add staff | View Staff |
| 3 | Admin | View Staff | Register Staff |
| 4 | Admin | View Review | Admin view reviews about student |
| 5 | Admin | View attendance | Admin view student attendance |
| 6 | Admin | View staff attendance | View staff attendance |
| 7 | Admin | View Teachers Performance | view Teachers performance from reviews |
| 8 | Staff | Login | login successful with correct username and password |

USER STORY

| User Story ID | As a type of | I Want to <Perform Some task> | So that I can<Achieve Some Goal> |
|---------------|--------------|-------------------------------|-------------------------------------|
| 9 | Staff | Student registration | Add manage student registration |
| 10 | Staff | View reviews | View reviews from student |
| 11 | Staff | View student | View student attendance |
| 12 | Staff | View performance | View personal performance |
| 13 | Staff | View attendance | View personal attendance |
| 14 | Student | Login | Login with username & password |
| 15 | Student | Add review | Add review about staff |
| 16 | Student | View attendance | View self attendance |
| 17 | Camera | Face recognition | Mark attendance by face recognition |

PROJECT PLAN

| User Story ID | Task Name | Start Date | End Date | Days | Status |
|---------------|-----------|------------|------------|------|-----------|
| 1 | Sprint 1 | 27-12-2021 | 27-12-2021 | 4 | Completed |
| 2 | | 28-12-2021 | 28-12-2021 | | Completed |
| 3 | Sprint 2 | 29-12-2021 | 29-12-2021 | 4 | Planned |
| 4 | | 15-01-2022 | 16-01-2022 | | Planned |
| 5 | Sprint 3 | 22-01-2022 | 22-01-2022 | 8 | Planned |
| 6 | | 23-01-2022 | 23-01-2022 | | Planned |
| 7 | Sprint 4 | 05-02-2022 | 06-02-2022 | 4 | Planned |
| 8 | | 12-02-2022 | 12-02-2022 | | Planned |

SPRINT PLAN

| Backlog Item | Status & Completion date | Original Estimate in hours | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 12 |
|--|--------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| User Story#1,2 | | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Table design | 27/12/2021 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Form design | 28/12/2021 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| User story #3,4 | | | | | | | | | | | | | | |
| Basic coding & Facial recognition | 23/01/2022 | 10 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| User story #5,6 | | | | | | | | | | | | | | |
| Emotion recognition & Sentiment analysis | 29/01/2022 | 20 | 0 | 0 | 0 | 0 | 5 | 5 | 4 | 4 | 2 | 0 | 0 | 0 |
| User story #7,8 | | | | | | | | | | | | | | |
| Testing & Output | 12/02/2022 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 2 |
| Total | | 50 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 5 | 3 | 2 |

[illegible][illegible]

THANK YOU